

NWS FORM E-5

(11-88)

(PRES. by NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION****NATIONAL WEATHER SERVICE****HYDROLOGIC SERVICE AREA (HSA)****WFO Jackson, Mississippi****MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:

MONTH YEAR

June 2014

TO: Hydrometeorological Information Center, W/OH2
NOAA / National Weather Service
1325 East West Highway, Room 7230
Silver Spring, MD 20910-3283

SIGNATURE

Alan E. Gerard, Meteorologist In-Charge

Date

7/23/2014

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924)



An X inside this box indicates that no river flooding occurred within this hydrologic service area.

Synopsis...

The month of June was, in general, wetter than normal. The western two-thirds of the HSA (Hydrologic Service Area) received at least two inches of rainfall above normal, whereas the most eastern third of the HSA remained drier than normal. The Hattiesburg and Meridian ASOS's (Automated Surface Observing System) were 0.5 to 1.5 inches below normal rainfall. Greenwood measured its third wettest June on record with a little over nine inches of rainfall. Temperature-wise, the HSA measured near normal in respect to the average monthly temperature. Only the Hattiesburg and Greenville ASOS's averaged above one degree above normal values.

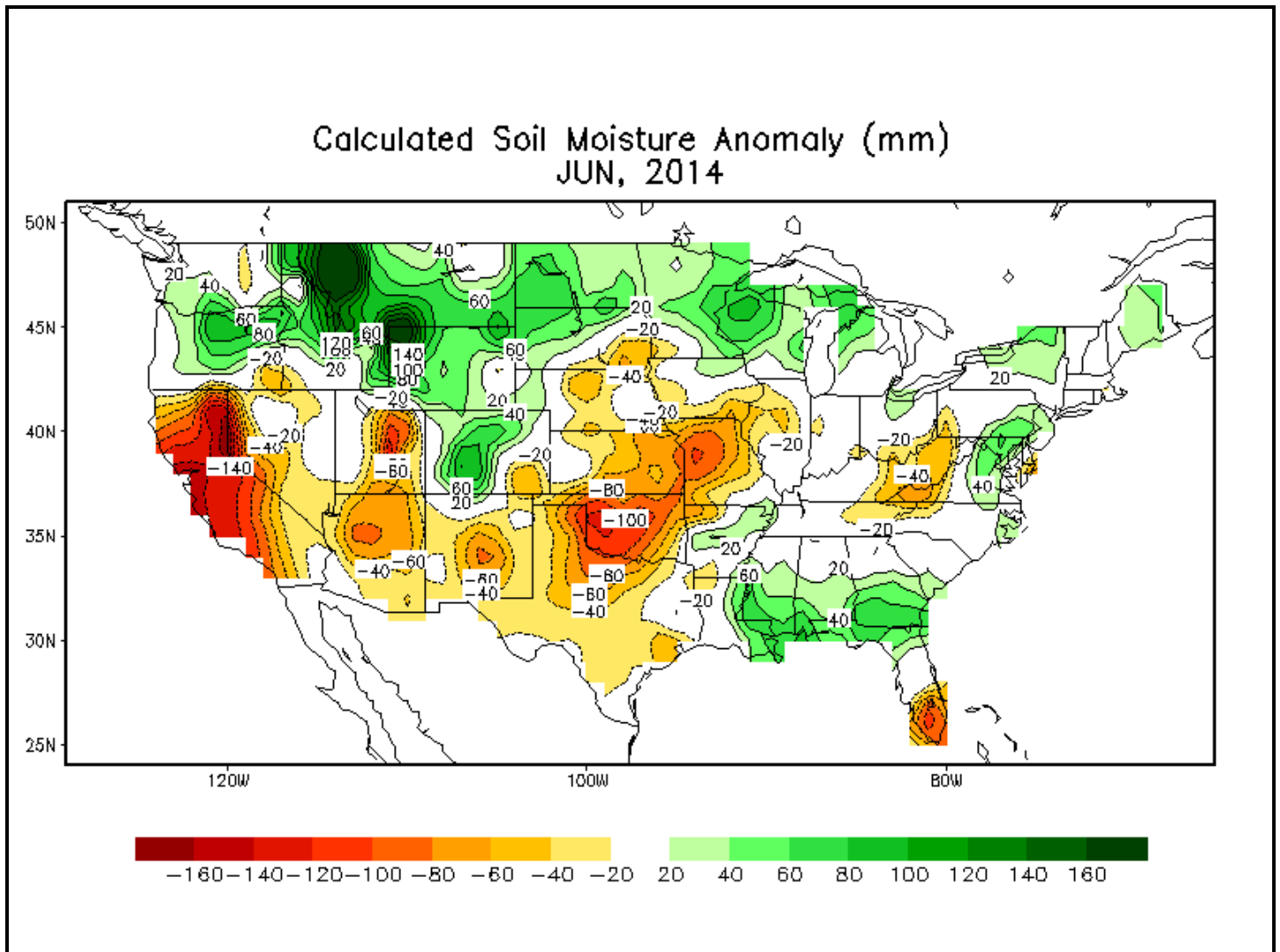
The month started out with the typical diurnal, summertime scattered showers and thunderstorms on the 1st through the 4th. A creeping frontal boundary then began approaching the HSA on the 5th, finally entered the area on the 7th and brought some dispersed rainfall to the northern half of Mississippi.

On the 9th, a warm front located in North Mississippi triggered the formation of some heavy thunderstorms which dropped more than three inches of rainfall in the northern part of the HSA. On the following two days, the accompanying cold front took its time to pass through the region and brought another three inches of rainfall to the entire HSA on the 10th and 11th. Another front passed through on the 13th and dropped some minor scattered rainfall throughout the area.

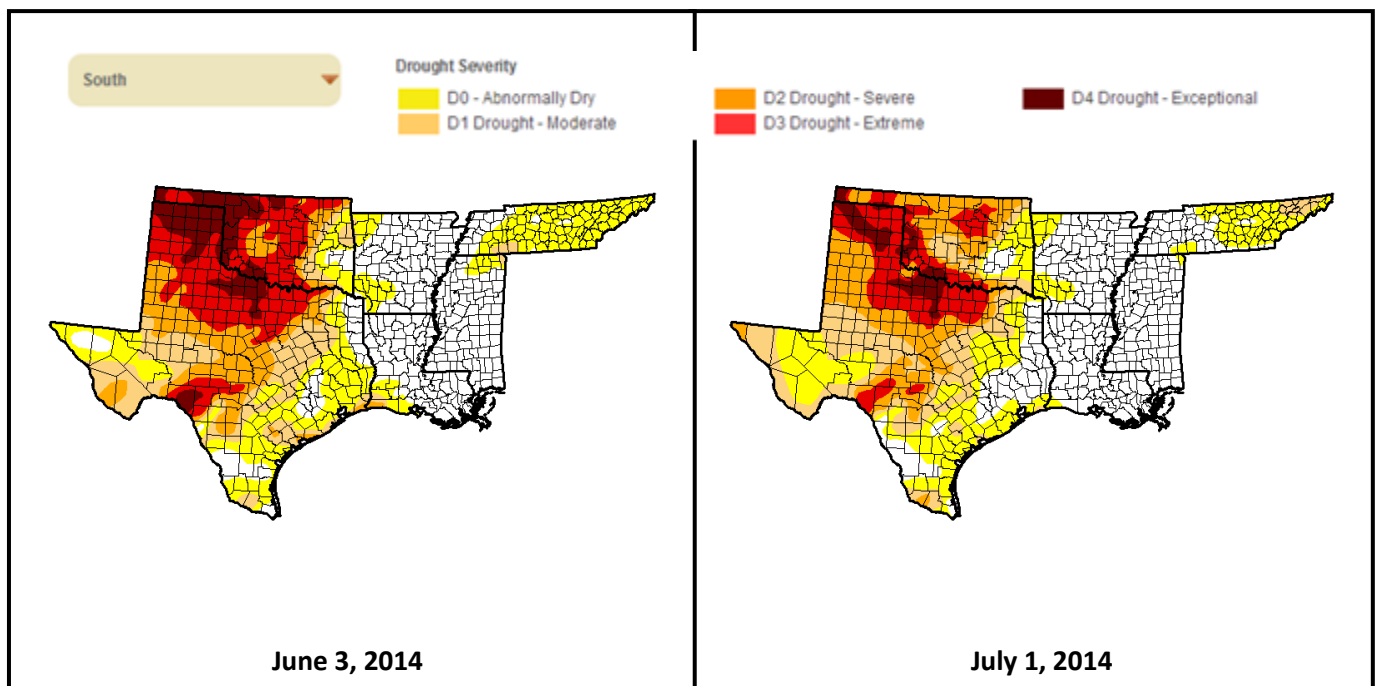
The summer pattern of diurnal scattered thunderstorms started again on the 14th and continued for the next two weeks through the 29th. The days with heavier rainfall included the 19th, 23rd, and 26th. On each of these days, a couple locations received 2.5 inches of rainfall or more. The pattern ended on the 29th and left the whole area dry on the last day of the month.

River and Soil Conditions...

Soil Moisture Map:

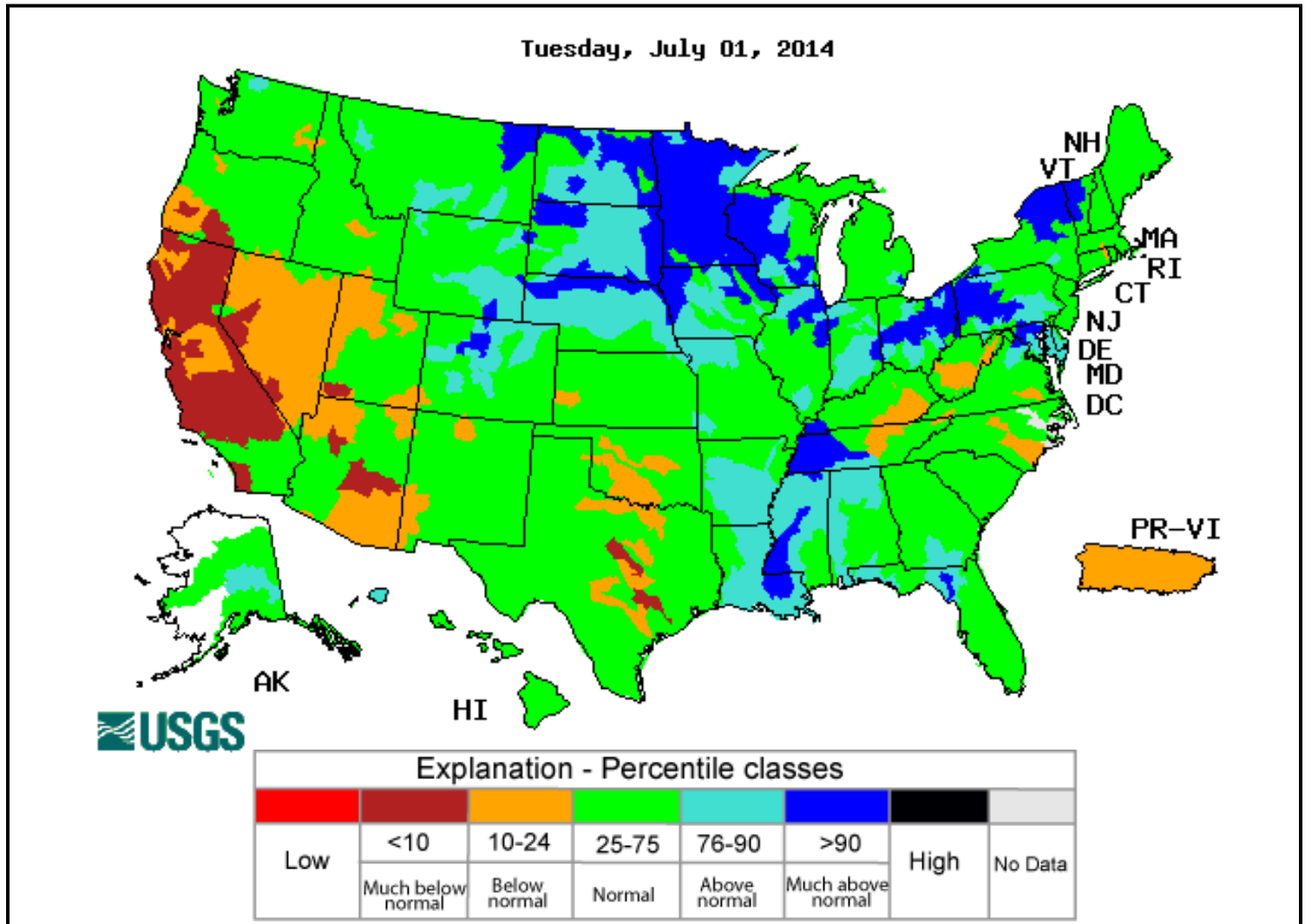


Drought Comparison:



Streamflow:

The United States Geological Survey's (USGS) June 2014 river streamflow records were compared with all historical June streamflow records. The June streamflow was above normal in the majority of the HSA and normal in the southeastern corner.



River Conditions:

Minor flooding occurred along the upper Big Sunflower, upper Big Black, and Yalobusha rivers. No flooding occurred along any other river system in the HSA. For the conditions of the Mississippi River from Arkansas City to Natchez, refer to the hydrographs on the next page.

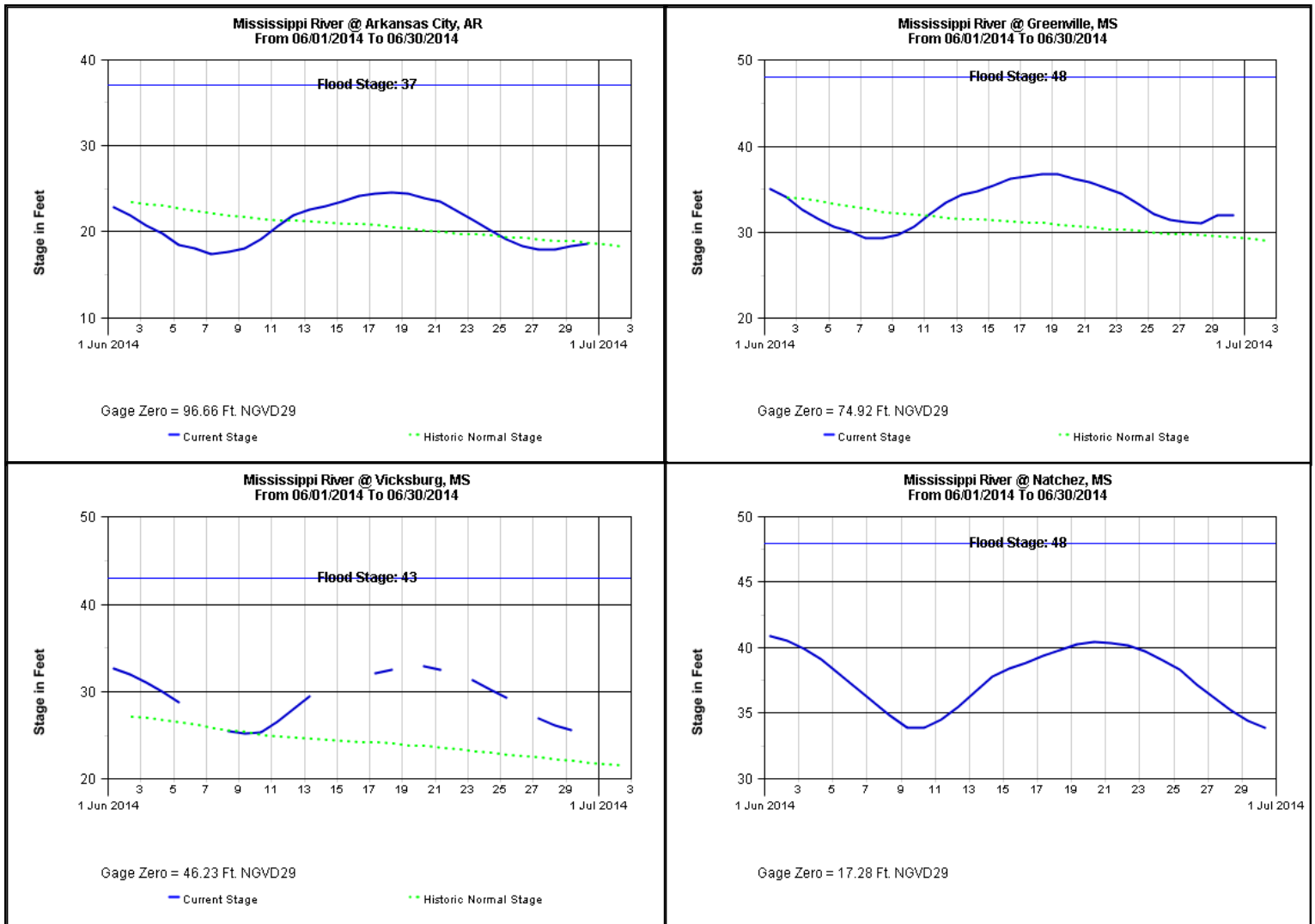
Climatic Outlook and Flood Potential:

The climatic outlook favors above normal temperatures over the next three months for the entire HSA. For precipitation, the outlook shows equal chances for below or above normal rainfall over the next three months throughout the HSA. Therefore, based on current soil moisture, streamflow, and the 3-month weather outlook, the flood potentials are as follows:

- Pearl River System: Average.
- Yazoo River System: Average.
- Big Black River System: Average.
- Homochitto River System: Average.
- Pascagoula River System: Average.
- Northeast LA and Southeast AR: Average.
- Tombigbee River System: Average.
- Mississippi River: Average.

Mississippi River Plots June 2014

Plots Courtesy of the United States Army Corps of Engineers



Monthly Preliminary High and Low Stages:

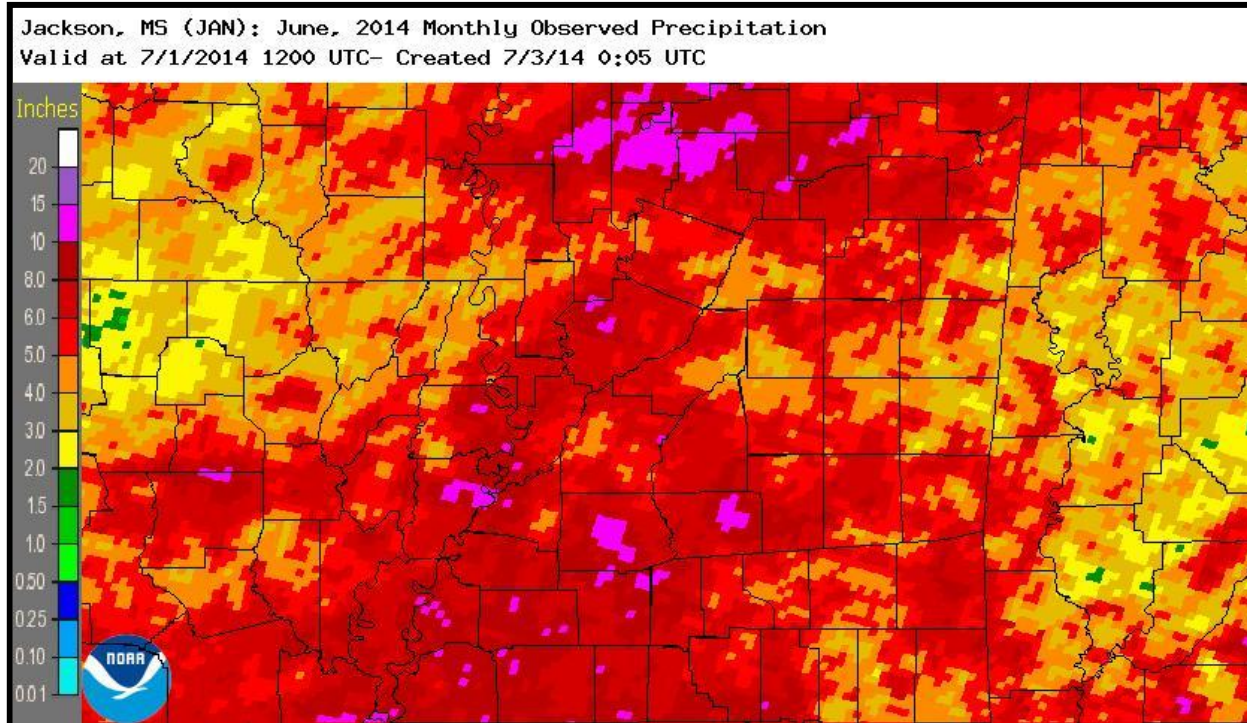
Location	Flood Stage (ft)	High Stage (ft)	Date	Low Stage (ft)	Date
Arkansas City	37	24.62	6/18	17.42	6/07
Greenville	48	36.80	6/18	29.31	6/08
Vicksburg	43	32.86	6/20	25.17	6/09
Natchez	48	40.92	6/01	33.91	6/10

Rainfall for the Month of June:

The largest rainfall amounts in the HSA from NWS Cooperative Observer reports during the period from 7 am on May 31st until 7 am on June 30th were:

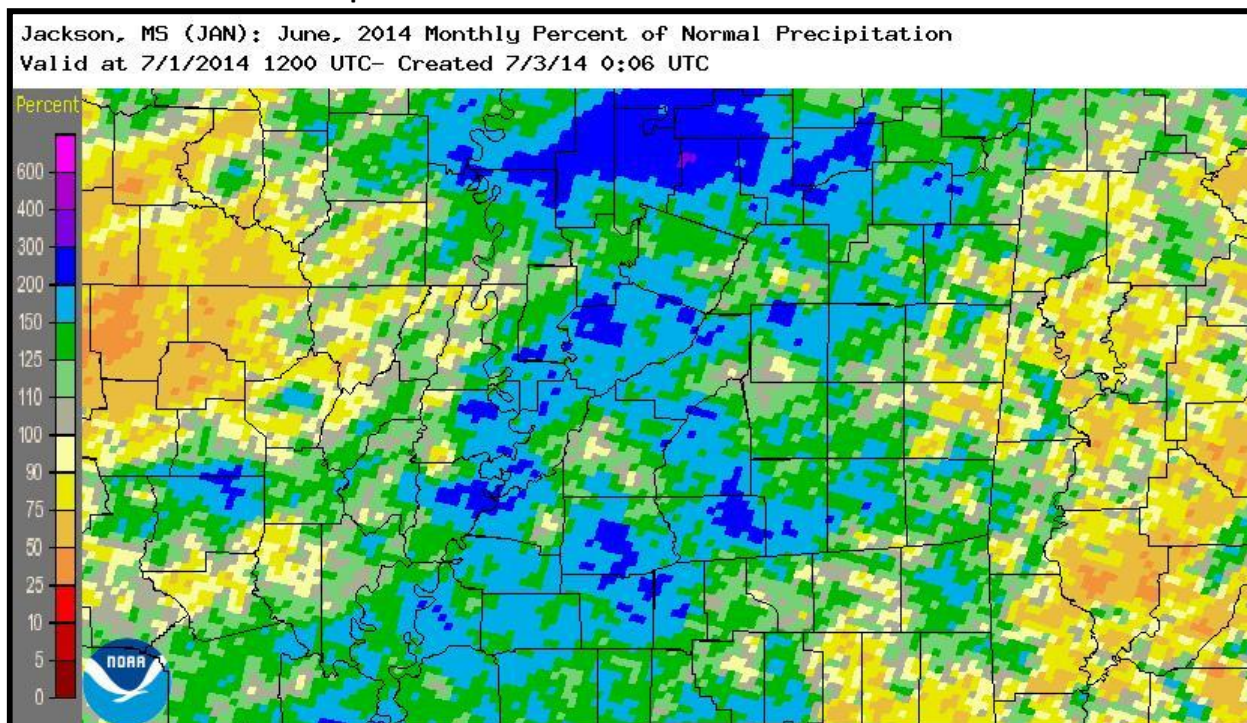
11.48 inches at Grenada, MS; 11.11 inches at Grenada Dam, MS; 10.96 inches at Crawford, MS; 10.16 inches at Hazlehurst, MS; 9.59 inches at Elliot, MS; 9.57 inches at Meadville, MS; 9.20 inches at Meadville 5SE, MS; 8.93 inches at D'lo, MS; 8.75 inches at Purvis, MS; 8.56 inches at Mize, MS; 8.35 inches at Bay Springs, MS; 8.27 inches at Monticello, MS; 8.26 inches at Winona, MS; 8.14 inches at Starkville, MS;

June Rainfall Estimates:



Note: Observer rainfall and MPE may differ due to time differences.

June Percent of Normal Precipitation:



Note: Observer rainfall and MPE may differ due to time differences.

June Rainfall for Selected Cities:

City (Airport)	Rainfall	Departure from Normal	2014 Rainfall	2014 Departure from Normal
Jackson (KJAN)	6.43	+2.31	38.03	+9.80
Meridian (KMEI)	2.54	-1.86	34.26	+4.43
Greenville (KGLH)	6.37	+2.33	30.50	+2.20
Greenwood (KGWO)	9.03	+4.72	32.15	+4.51
Hattiesburg (KHBG)	4.94	-0.56	33.42	+1.38
Vicksburg (KTVR)	6.55	+2.56	34.88	+5.59

Total Flood Warning products issued: 4

Total Flood Statement products issued: 36

Total Flood Advisories MS River: 0

Daily Climate and Ag WX Products (AGO'S) issued: 30

Daily CoCoRaHS Rainfall Products (LCO'S) issued: 30

Daily River and Lake Summary Products (RVD'S) issued: 30

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Service Hydrologist

&

Anna Weber

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Note: Provisional stage and precipitation data were furnished with the cooperation of the Mississippi, Louisiana, and Arkansas National Weather Service Cooperative Observer Programs, United States Geological Survey (USGS), United States Army Corps of Engineers (USACE), Pearl River Valley Water Supply District (PRVWSD), Pat Harrison Waterway District, Pearl River Basin Development District, and the Mississippi Department of Environmental Quality.

cc: USGS Little Rock District
USGS Ruston District
USACE Mobile District
USACE Vicksburg District
USACE Mississippi Valley Division
USGS Mississippi District
SRH Climate, Weather and Water Division
Lower Mississippi River Forecast Center
Pearl River Valley Water Supply District
Hydrologic Information Center
Southern Region Climate Center
Pat Harrison Waterway District
Pearl River Basin Development District